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TITLE:

Angular velocity sensor

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INVENTOR-INFORMATION:

NAME

COUNTRY

FUJIMOTO, KATSUMI

OKANO, KEIICHI

MUROHASHI, KOHICHI JP

ASSIGNEE-INFORMATION:

NAME

COUNTRY

MURATA MANUFACTURING CO JP

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ABSTRACT:

CHG DATE=20020103 STATUS=0> An angular velocity sensor includes a vibrator. A differential amplifier circuit outputs a differential signal including a Coriolis component from the vibrator. The differential signal is converted into a digital signal (L-R) by an $\underline{A/D}$ converter (10). A $\underline{Hilbert}$ transformer (21) shifts the $\overline{\text{differential signal (L-R) by pi /2.}}$ Two multipliers (22, 23) squares the original differential signal (L-R) and the pi /2 -phase-shifted differential signal ((L-R)'), respectively, and an adder (24) computes the sum of the squares. A square root circuit (25) computes